

Receiving Report

Date: 12/2/23
 Supplier: 74051enk
 Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

Batch No: M120777

Dart P/O: 16165

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: Yes No N/A
 QC6 Inspection: 12/2/24 N/A
 Work Order: 12/2/24 N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) LL Level 12

Production/Admin:

Date: 12/2/23

Received/Costing:

Initial: LL

Location:

Purchase Order Receipt Listing

Thursday, February 23, 2012 8:57:52 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO16165 Receipt Dates from 2/23/20
All Item ID/GL/WS All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/	Line Nbr/	Project ID	Reference/ Description/	PO U/M / Stock U/M	Required Date	Recv Date/	Recv Qty	Cost Per Unit/	Inspected Qty/	MRB Qty/		
Cur Type	Inspected Type	Req	Cert Std	Req	Required Qty	Recv Date/	(PO U/M)	Recv Value	Rejected Qty (R-O/U/M)	MRB Reject Qty		
PO16165	6	VC-COP001	Thyssenkrupp Materials CA Ltd	M60610S.032	sf	2/1/7/2012	2/23/2012	192.0000	\$1.35	0.0000	0	\$259.27
CAD	No		60610 SHEET .032	sf	120777		DESI02		\$259.27	0.0000	0	
10	10		M6061T6H0.625	f		2/1/7/2012	2/23/2012	12.0000	\$3.74	0.0000	0	\$44.87
No	No		6061-T6 HexBar	f	120777		DESI02		\$44.87	0.0000	0	
11	11		M2024T3H1.375	f		2/1/7/2012	2/23/2012	12.0000	\$17.20	0.0000	0	\$206.42
No	No		2024-T3 Hex Bar	f	1.375"		DESI02		\$206.42	0.0000	0	
12	12		M2024T3R1.250	f		2/17/2012	2/23/2012	12.0000	\$8.50	0.0000	0	\$101.95
No	No		2024-T3 Round Bar	f	1.250"		DESI02		\$101.95	0.0000	0	
			120777									
13	13		M2024T3R1.875	f		2/17/2012	2/23/2012	12.0000	\$15.83	0.0000	0	
No	No		2024 T3 ROUND BAR 1.875	f	120777		DESI02		\$189.91	0.0000	0	\$189.91

BILL OF LADING

No: PEC 754013

Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 22Feb12 at 10:10 From PFW
Probill
Via VIM TRNASFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

BILL OF LADING

1) Our Order PEC-419208- 1 Your PO # 16165

ALUMINUM SHEET 6061-0

.0320 Nom X 48.0000" X 144.0000"

Heat Number Tag No
L03917B 39075Quantity PCS Wt LBS
192.00 SFT 4 87

2) Our Order PEC-419208- 2 Your PO # 16165

ALUMINUM HEXAGON BAR 6061-T6511

.625" X 144.0000"

Heat Number Tag No
201200371 39001Quantity PCS Wt LBS
12 FT 1 5

3) Our Order PEC-419208- 3 Your PO # 16165

ALUMINUM HEXAGON BAR 2024-T351 USI TESTED

1.375" X 144.0000"

Heat Number Tag No
MA011005339 39003Quantity PCS Wt LBS
12 FT 1 23

4) Our Order PEC-419208- 4 Your PO # 16165

ALUMINUM ROUND BAR 2024-T351 CF

1.25" DIA X 144.0000"

Heat Number Tag No
141826 39004Quantity PCS Wt LBS
12 FT 1 17

5) Our Order PEC-419208- 5 Your PO # 16165

ALUMINUM ROUND BAR 2024-T351 CF

1.875" DIA X 144.0000"

Heat Number Tag No
MA20113157 39005Quantity PCS Wt LBS
12 FT 1 40

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

1 tube
1 crat
3 Bars

BILL OF LADING

NO: PEC 754013

Ship From: THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 22Feb12 at 10:10 From PFW
 Probill
 Via VIM TRNASFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

BILL OF LADING

Tags	PCS	LBS
TOTAL: 5	8	172

ADD ON TO 418885 SUR CHARGE PAID

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

TOTAL 1 SKID, 1 TUBE, 3 BARS G.W. 322 LBS

ITEM (1) SKID
 ITEM (2) BAR
 ITEM (3) TUBE
 ITEM (4) BAR
 ITEM (5) BAR

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

***** WE STOCK STAINLESS STEEL *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Material Certificate



Ship To Address CHARLESTON ALUMINUM
C/O MAIN STEEL
781 BEDFORD ST. NW
ATLANTA GA, 30318

Sold To Address CHARLESTON ALUMINUM
480 FRONTAGE RD.

Novelis Order #: 66590403

Product No:

081251P03

Processed Date:

7/23/2011 5:02:00 PM

Customer Part

Package Net Wgt:

8,097 LBS

Package #:

52998555

Mechanical Specifications:

ASTMB209-07, AMS-QQ-A-250/11-97, AMS4025L

Coll #:

L03917B

Cast Date:

11/APPANIS LANE

Alloy

6061

Temper:

O

Gauge:

0.0320

Width:

48

Length:

4,724

Sample Location Position TestDegree Tensile Gauge Value UOM

BACK/ ID BACK/ ID ELONGATION 90 DEGREES 11.0000 in

ELONGATION 90 DEGREES 23.0000 in

ELONGATION 90 DEGREES 27.0000 in

0.0305 in

0.0307 in

18.0500 ksi

37.7200 ksi

46.8000 ksi

9.3200 ksi

19.8900 ksi

42.7900 ksi

11.0000 in

25.0000 in

27.0000 in

0.0305 in

0.0307 in

TENSILE THICKNESS 90 DEGREES

0.0306 in

TENSILE THICKNESS 90 DEGREES

0.0307 in

Test Results

Sample Location	Position	TestDegree	Tensile Gauge	Value	UOM
BACK/ ID	BACK/ ID	ELONGATION 90 DEGREES	11.0000	in	
BACK/ ID	BACK/ ID	ELONGATION 90 DEGREES	23.0000	in	
BACK/ ID	BACK/ ID	ELONGATION 90 DEGREES	27.0000	in	
BACK/ ID	BACK/ ID	TENSILE THICKNESS 90 DEGREES	0.0305	in	
BACK/ ID	BACK/ ID	TENSILE THICKNESS 90 DEGREES	0.0307	in	
BACK/ ID	BACK/ ID	UTS 90 DEGREES	18.0500	ksi	
BACK/ ID	BACK/ ID	UTS 90 DEGREES	37.7200	ksi	
BACK/ ID	BACK/ ID	UTS 90 DEGREES	46.8000	ksi	
BACK/ ID	BACK/ ID	UTS 90 DEGREES	9.3200	ksi	
BACK/ ID	BACK/ ID	UTS 90 DEGREES	19.8900	ksi	
BACK/ ID	BACK/ ID	UTS 90 DEGREES	42.7900	ksi	
FRONT/ OD	FRONT/ OD	ELONGATION 90 DEGREES	11.0000	in	
FRONT/ OD	FRONT/ OD	ELONGATION 90 DEGREES	25.0000	in	
FRONT/ OD	FRONT/ OD	ELONGATION 90 DEGREES	27.0000	in	
FRONT/ OD	FRONT/ OD	TENSILE THICKNESS 90 DEGREES	0.0305	in	
FRONT/ OD	FRONT/ OD	TENSILE THICKNESS 90 DEGREES	0.0307	in	

From: Copper and Brass Sales
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698598
Part: PO: PEC - 236914
Wgt: 86.704 LB Date: 02/14/2012

Material Certificate



FRONT/ OD	UTS 90 DEGREES	18.1300	ksi
FRONT/ OD	UTS 90 DEGREES	38.0200	ksi
FRONT/ OD	UTS 90 DEGREES	46.9200	ksi
FRONT/ OD	VTS 90 DEGREES	11.9600	ksi
FRONT/ OD	VTS 90 DEGREES	20.2100	ksi
FRONT/ OD	VTS 90 DEGREES	42.9100	ksi

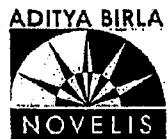
Chemical Composition(%)

Si	FE	CU	MN	MG	CR	NI	ZN	TI	BE	AL	EA	TT
0.5800	0.4800	0.2700	0.0100	0.9100	0.1800	0.0000	0.0100	0.0100	0.0000	97.5700	0.0000	0.0000

I Certify that the materials detailed herein have been tested and that documentary evidence of the test or release certificate is on file

Per _____
Process Leader

From: Copper and Brass Sales
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698598
Part: PO: PEC - 236914
Wgt: 86.704 LB Date: 02/14/2012



December 14, 2011

RE: Novelis coil L03917B

Aluminum Ingot cast in Canada
Hot rolling processes performed in USA
Cold rolling processes performed in Canada

Troy Reid
Product Metallurgist

Novelis Inc. Kingston Works
P.O Box 2000, 1 Lappan's Lane, Kingston Ontario
K7L 4Z6 Canada

Telephone

+16135412400

Website

www.novelis.com

From: Copper and Brass Sales
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698598
Part: PO: PEC - 236914
Wgt: 86.704 LB Date: 02/14/2012

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****1100 1350 3003 3004 3105 5005 5083 5086 5182 5454 6061 6063****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSIONPOTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUMARE IN CONTACT WITH CERTAINMETAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION- PROOF VENTILATION. KEEP MATERIAL DRY.

INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN,TEETH,AND HAIR DISCOLORATION. CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO TIN DUST OR IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.

THIS PRODUCT ALSO CONTAINS LEAD AND CHROMIUM COMPOUNDS.LEAD IS KNOWN TO CAUSE REPRODUCTIVE TOXICITY AND IS A KNOWN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF INTHE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65). IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.READ THE ALUMINUM/ALUMINUM ALLOYS MATERIAL SAFETY DATA SHEET(MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ www.copperandbrass.com.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

SERVICE CENTER METALS

5850 Quality Way
Prince George, VA 23875



SCM

5850 Quality Way
Prince George, VA 23875

OUR ORDER NUMBER	ITEM
142157	2

SHIP TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
Copper & Brass Sales, Inc.	148891	XB1132	1/16/2012	ASTM B224-08 No Stencil
Customer PO				SPECIFICATION
Copper & Brass Sales, Inc.	5400129709	ALLOY/TEMPER	6061-T6511	AMS-QQA-200/8
Customer Part Number		SALESPERSON	Ellis Williams	
Quantity Certified	600 lbs	DESCRIPTION	126 pcs AL-HEX00223 Hex .625 +/- .005	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Mechanical Properties

Test	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201200371	01/12/12	49.0	45.9

1

201200371

Date 2-13-12
Customer SCM

These Tests are for Material Shipped on
Your Order 2-13-12

From Copper And Brass Sales, Inc.
INNINO 2-13-12

WGT 600 PCS 126

John J. Wiggins

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each	Others	Melted In
112314	6061	0.72	0.36	0.31	0.10	0.84	0.15	0.06	0.02	0.05	0.15	United States of America

Print Date:
1/16/2012

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

From: Copper and Brass Sales
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698041
Part: PO: PEC - 236914
Wgt: Date: 02/13/2012
5.000 LB

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****1100 1350 3003 3004 3105 5005 5083 5086 5182 5454 6061 6063****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSIONPOTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUMARE IN CONTACT WITH CERTAINMETAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION- PROOF VENTILATION. KEEP MATERIAL DRY.

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THIS PRODUCT ALSO CONTAINS LEAD AND CHROMIUM COMPOUNDS.LEAD IS KNOWN TO CAUSE REPRODUCTIVE TOXICITY AND IS A KNOWN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF INTHE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65). IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.READ THE ALUMINUM/ALUMINUM ALLOYS MATERIAL SAFETY DATA SHEET(MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

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* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ www.copperandbrass.com.

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSION POTENTIAL MAY BE PRESENT WHEN: DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION-PROOF VENTILATION. KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER. INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD), A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS. BERYLLIUM IS A CANCER HAZARD; OVER TIME CBD AND CANCER CAN BE FATAL. TARGET ORGAN IS PRIMARILY THE LUNG. INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN, TEETH, AND HAIR DISCOLORATION. CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE, SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES. TARGET ORGAN IS PRIMARILY THE LUNG, BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER. CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS. CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS. OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES, NOSE, AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS. INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER. NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN. EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE. UNDER HIGH TEMPERATURES, HEXAVALENT CHROMIUM MAY BE PRODUCED, IF IN THE INSOLUBLE FORM, IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

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For additional information, call or write to Copper and Brass Sales, 22355 West Eleven Mile Road, Southfield, MI 48033, telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.



Aluminium Industry
Impol d.o.o.
Partizanska ulica 88
2310 Slovenska Bistrica
Slovenija

Tel. : +386 2 8453 100, 8187 521
Fax. : +386 2 8181 219

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IMPOL ALUMINUM CORPORATION
155 ERIE BLVD., 2ND FLOOR
SCHEECTADY, NY 12305-2235
UNITED STATES OF AMERICA

INSPECTION CERTIFICATE
No.: 27004

Order No.: : 06387800
Packing list No.: : 27004
Netto : : 42144 lb
Slovenska Bistrica : : 2011-11-17
MADE IN SLOVENIA

Item Product description
Your order No.: 5400117752 Our order No.: 41021/10/1
670825 ALUMINUM COLD FINISH RODS 2024 T351
LIGHTLY OILED 1,25" RD X 12 FT; ALRD00828 N-ASTMAMSQQAAMSNetto: 2032 lb

We acknowledge that listed good correspond to prescribed norm
ASTM B211-03 AMS-QQ-A-225/6A AMS 4120-R EN 10204/3.1, MERCURY FREE
what is ascertained with test results:

MECHANICAL PROPERTIES

Charge	Lot	Ult.tens.str. ksi	Yield strength ksi	Elongation A50,8%	Hard.of Br. HB	Erichsen mm	Earing %	Z %	Bend test	Pos.
141826	762	71,9	60,6	11,1	131,0	-	-	-	-	1, 2

BILLETS 100% US TESTED, 100% US TESTED, EDDY CURRENT INSPECTED

CHEMICAL COMPOSITION

Charge	Si %	Fe %	Cu %	Mn %	Mg %	Cr %	Zn %	Ti %	Zr %	Al %
141826	0.3658	0.3630	4.1324	0.6131	1.3517	0.0232	0.0267	0.0207	0.0026	93.0397

Country of melt EU / Slovenia

Country of manufacturing EU / Slovenia

DIRECTOR
Edvard Slaček



Impol d.o.o.
Slovenska Bistrica, Partizanska 88

This product is produced in accordance with ISO 9001 Quality system, certificated by Bureau Veritas Certification No. 207590.
Družba je vpisana v register pri Okrožnem sodišču v Mariboru • Reg. št. vpisa: Šrg 96/01315 • Znesek osnovnega kapitala 16,954.598,56 EUR • Matična številka 5040736
Davčna št.: 45197687

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698088

Part: PO: PEC - 236914

Wgt: 17.000 LB Date: 02/13/2012

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSION POTENTIAL MAY BE PRESENT WHEN: DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION-PROOF VENTILATION. KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER. INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD), A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS. BERYLLIUM IS A CANCER HAZARD; OVER TIME CBD AND CANCER CAN BE FATAL. TARGET ORGAN IS PRIMARILY THE LUNG. INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN, TEETH, AND HAIR DISCOLORATION. CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE, SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES. TARGET ORGAN IS PRIMARILY THE LUNG, BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER. CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS. CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS. OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES, NOSE, AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS. INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER. NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN. EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE. UNDER HIGH TEMPERATURES, HEXAVALENT CHROMIUM MAY BE PRODUCED, IF IN THE INSOLUBLE FORM, IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate, use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding, grinding, abrasive sawing, sanding and polishing. Any activity which abrades the surface of this material can generate airborne particulate. Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only. This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales, 22355 West Eleven Mile Road, Southfield, MI 48033, telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.

Certified Inspection Report

01/06/12
08/25/19

Alcoa Inc.
Massena Operations
Park Avenue East, Massena, NY 13662



Customer
Copper Brass Sales
Customer P.O. No.
5400122821
Customer Part No.
(ALRD00283)

Alcoa Order No.
MMC-A1453- -020
Govt. Contract No.
000159949

Ship To
Copper Brass Sales
8001 Thyssenkrup Parkway
Northwood, OH 43619

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/TS 16949 registered quality management system. Melted and manufactured in the USA.

J. Klamp
Thomas J. Klamp, Quality Assurance Manager

Date Shipped
01/05/12
Weight Shipped
1,963 lbs
Alloy - Temper
2024-T351
Size
1.8750 IN

Product
CFRB-SMS-ROD DIA. X 12 FT
Shape
DIA
Config
12 FT

BOL
000159949

QRR

Specifications:

AMS 4120R (Except Marking)
AMS-QQA-2256A
Material conforms to T4 requirements
QQA-2256E (1)
ASTM B211-03

Product produced and marked to the requirements of AMS-QQA-2256 also meets the requirements of QQ-A-22516.

Product produced and marked to the requirements of QQ-A-2256 also meets the requirements of AMS-QQA-22516.

TEST REQUIREMENTS		Test	Test	Test	Test	Test	Test	Test	Test
Test Results	No. of Tests	U.T.S.	T.Y.S.	%Elong	10.0	10.0	10.0	10.0	10.0
Lot / Work Order	2	Max:	69.7	52.6	19.0				
		Min:	68.8	52.5	18.0				
MA20113157	2	Max:	68.6	51.1	20.0				
		Min:	68.5	50.7	20.0				

When 2 or more tests per lot are made, the highest and lowest values are reported
Analyses obtained from one or more samples in this lot.

TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

T.Y.S. Tensile Yield Strength KSI

%Elong Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)

Y.SI %FE

%CU %MN

%MG %CR

%ZN %Ti

%Others %Others

%AL %OT

Rem %AL

Total Rem

Each Total

ALLOY	MAX	MIN	MAX	MIN	MAX	MIN
2024	0.50	0.50	4.9	0.9	1.8	0.10
			3.8	0.30	1.2	0.25
					0.15	0.05

Actual Started Chemistry

LOT/WORK ORDER	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%Ti	%Others	%AL
MA20112140	0.09	0.27	4.8	0.64	1.5	0.02	0.13	0.02	LT 0.05	LT 0.15
MA20113157	0.06	0.24	4.4	0.61	1.4	0.01	0.01	0.02	LT 0.05	LT 0.15
	0.10	0.26	4.5	0.66	1.5	0.02	0.03	0.02	LT 0.05	LT 0.15
	0.08	0.24	4.4	0.63	1.4	0.02	0.03	0.02	LT 0.05	LT 0.15

From: Copper and Brass Sales
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698085

Part: Wgt: 40.000 LB

Page 1

Certified Inspection Report

01/06/12
00:25:19

Alcoa Inc.
Massena Operations

Park Avenue East, Massena, NY 13662

ALCOA

Customer P.O. No.

**Customer
Copper Brass Sales**

5400122821

Customer Part No.

(ALRD00283)

Alcoa Order No.

MMC-A1453-020

Govt. Contract No.

NOTES:
Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.

This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: Copper and Brass Sales
Cust: THYSSENKRUPP MATERIALS NA - ECAD
Part: PO: PBC - 236914
Wgt: 40.000 LB


Rush A. Kell

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO16165

Purchase Order Date 2/10/12
PO Print Date 2/10/12

Page Number 1 of 5

Order From: VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	
Vendor Fax	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	Destination-Collect

Ship To: DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

2/10/12/10

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303B1.000X03.000	303 BAR 1" X 3"	2/17/12	✓ 8.00 No	Yours ppd <i>f</i> <i>2/12/15</i> <i>none</i>	\$58.1250	\$465.00
2	M303R0.250	303 Round Bar 0.250"	2/17/12	✓ 12.00 Yes	Yours ppd <i>f</i> <i>2/12/15</i>	\$2.0833	\$25.00
3	M6061T6B2.500X03.500	6061-T6 Bar 2.50 x 3.50	2/17/12	✓ 8.00 Yes	Yours ppd <i>f</i> <i>2/12/15</i>	\$22.0400	\$176.32

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required when applicable

Change Nbr: 1

Change Date: 2/10/12

Change Nbr:	1	Change Date:	2/10/12				
				<p>Fax: 613 632 1005</p> <p>PO Print Date 2/10/12</p> <p>Page Number 2 of 5</p>			
Order From :		VC-COP001					
THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A" TORONTO, ON M5W 5V8 CA							
Contact Name Vendor Phone 905 669 9444 Vendor Fax 905 738 9033 Vendor Account Nbr		<p>Buyer Chantal Lavoie Requisition Nbr Tax Resale Nbr 10127-2607 Terms Net 30 Currency CAD FOB Destination-Collect</p>					
		<p>Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-200/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B22</p>					
4	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	2/17/12	✓ 12.00 Yes	Yours ppd f	\$14.3500	\$172.20
5	M6061T6B0.500X02.000	6061-T6 Bar .500 x 2.00	2/17/12	✓ 24.00 Yes	Yours ppd f	\$2.4600	\$59.04
6	M6061OS.032	6061 0 SHEET .032	2/17/12	✓ 192.00 No	Yours ppd sf	\$1.3542	\$260.00
		<p>No substitution or deviation without consent. Certificate of Conformity or Material Certification required when applicable</p>					
Change Nbr:	1	Change Date:	2/10/12				

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Requisition Nbr	
Vendor Fax	905 738 9033	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

M6061T6R2.000	6061T6 ROUND BAR 2.00	Special Inst:	MATERIAL: 6061-OS ALUMINUM SHEET AS PER AMS-QQ-A-250/11 OR AMS 4025
		2/17/12	12.00 Yours ppd \$7.6700  \$92.04

Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-200/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221

M6061T6R3.500 6061 RD bar 3.50 2/17/12 12.00 Yours ppd \$23.5000 \$282.00
Yes f

Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-200/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B22J

M6061T6R0.375 6061-T6 Round Bar .375" 2/17/12 24.00 Yours ppd \$1.0417 \$25.00

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required when applicable

Change Nbr: 1

Change Date: 2/10/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO16165**

Purchase Order Date 2/10/12
PO Print Date 2/10/12

Page Number 4 of 5

Order From: VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Special Inst:

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM
ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8
OR AMS 4117
4128/4115/4116 OR QQ-AA-200/8 OR
AMS-QQ-A-200/8 OR AMS 4160 OR
ASTM B221 OR ASTM B221

10 M6061T6H0.625 6061-T6 HexBar .625 2/17/12 12.00 Yours ppd \$3.7500 \$45.00

92

✓ 12.00 f *1/17/23*

Special Inst:

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM
HEX BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8
OR AMS 4117
4128/4115/4116 OR QQ-AA-200/8 OR
AMS-QQ-A-200/8 OR AMS 4160 OR
ASTM B221 OR ASTM B221

11 M2024T3H1.375 2024-T3 Hex Bar 1.375" 2/17/12 12.00 Yours ppd \$17.2500 \$207.00

Yes

✓ 12.00 f *1/17/23*

Special Inst:

MATERIAL: 2024-T3/T3511
HEXAGONAL ALUMINUM BAR
AS PER AMS-QQ-A-200/3 OR AMS
4152/4164/4165

12 M2024T3R1.250 2024-T3 Round Bar 1.250" 2/17/12 12.00 Yours ppd \$8.2500 \$99.00

C12

✓ 12.00 f *1/17/23*

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 2/10/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

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Purchase Order Date 2/10/12

PO Print Date 2/10/12

Page Number 5 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	
Vendor Fax	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	Destination-Collect

13	M2024T3R1.875	2024 T3 ROUND BAR 1.875	<i>Y2</i> <i>1/11/23</i>	Special Inst:	MATERIAL: 2024-T3/T3510/T3511 ALUMINUM ROUND BAR AS PER AMS-QQ-A-200/3 OR AMS 4152/4164/4165	2/17/12	12.00	Yours ppd	\$15.8700	\$190.44
				Yes	f	<i>1/11/23</i>	PO Total:	\$2,098.04		



Change Nbr:	1	<i>W</i>	<i>CZ</i>	No substitution or deviation without consent. Certificate of Conformity or Material Certification required when applicable
Change Date: 2/10/12				